

WHAT IS CLAIMED:

1. A testing chamber comprising:
 - 2 a holder adapted to support a wireless communication device under test; and
 - an antenna arrangement positioned on an inner wall of the testing chamber, the
 - 4 antenna arrangement adapted to be coupled to a data processing device to transmit
 - shaped beams of signals, and to detect incident signals transmitted from the wireless
 - 6 communication device.
2. The testing chamber of claim 1, wherein the holder is movable.
3. The testing chamber of claim 1, wherein the testing chamber is spherical.
4. The testing chamber of claim 1, wherein the antenna arrangement comprises an
 - 2 array of antennas distributed about the inner wall.
5. The testing chamber of claim 1, wherein the testing chamber is configured to
 - 2 form a ring around the wireless communication device.
6. The testing chamber of claim 1, wherein the testing chamber includes an inner
 - 2 surface covered with a signal absorbing material.

7. The testing chamber of claim 1, wherein the antenna arrangement comprises an
2 array of antennas distributed about the inner wall and electrically configured so as
to be at least one of selectively, sequentially and simultaneously activated.
8. The testing chamber of claim 1, wherein the antenna arrangement comprises at
2 least one antenna, and at least one of the phase and amplitude of signals
transmitted therefrom are selectively shifted.
9. An apparatus comprising:
2 a chamber including an array of antennas positioned within an inner wall
thereof for receiving and transmitting signals; and
4 a data processing device to selectively control the activation of the array of
antennas, to modulate the characteristics of the receive or transmit signals of the array
6 of antennas and to determine the magnitude of the transmit and receive signals
reflected off the inner wall.
10. The apparatus of claim 9, wherein the data processing device is configured to
2 modulate the phase, amplitude, timing, and spatial orientation of the receive and
transmit signals.

11. The apparatus of claim 10, wherein the data processing device includes a holder
2 adapted to support a wireless communication device under test positioned within
the chamber for testing its radiated performance.
12. The apparatus of claim 11, wherein the holder is movable.
13. The apparatus of claim 12, wherein the chamber is spherical shaped.
14. The apparatus of claim 13, wherein the array of antennas form a ring along the
2 inner wall of the chamber.
15. The apparatus of claim 14, wherein the chamber includes an inner surface
2 covered with a signal absorbing material.
16. The apparatus of claim 12, wherein the array of antennas substantially
2 encapsulate the inner wall of the chamber.
17. The apparatus of claim 16, wherein the chamber includes an inner surface
2 covered with a signal absorbing material.

18. The apparatus of claim 9, wherein the data processing device selectively controls
2 the activation of the array of antennas adjusts in response to multi-path
propagation created within the chamber by a wireless communication device
4 under test.

19. The apparatus of claim 18, wherein the array of antennas is electrically configured
2 so as to be at least one of selectively, sequentially and simultaneously activated.

20. The apparatus of claim 9, wherein the array of antennas is electrically configured
2 so as to be at least one of selectively, sequentially and simultaneously activated.